

Patent Claims

1. A method for distributing keys to subscribers in digital mobile radio networks (7), with the keys being generated, and possibly being stored if required, in a security device (9) provided at the mobile radio network end and, on request by a subscriber, at least one key being requested from the security device (9) and being transmitted via the mobile radio network (7) to a mobile station (3) or a terminal (4) of the subscriber,

characterized

in that the transmitted key is allocated to that subscriber, and is stored in the terminal (4) and/or in a subscriber identity module SIM (5) in the mobile station (3).

- 2. The method as claimed in claim 1, characterized in that an SAT application is set up in the subscriber identity module SIM (5) in the mobile station (3), and carries out additional end-to-end encryption of the key transmitted between the mobile station (3) and the security device (9).
- 3. The method as claimed in claim 2, characterized in that, in order to use the SAT application, the subscriber must identify himself to the subscriber identity module SIM (5) by entering a PIN.
- 4. The method as claimed in one of claims 1 to 3, characterized

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in that the transmitted key is stored in a protected memory area in the subscriber identity module SIM (5).

- 5. The method as claimed in one of claims 1 to 4, characterized
- in that the key is transmitted via a traffic channel in the mobile radio network (7).
- 6. The method as claimed in one of claims 1 to 4, characterized
- in that the key is transmitted in the form of a short message SM via a signaling channel in the mobile radio network (7).
- 7. The method as claimed in one of claims 1 to 6, characterized
- in that, when the key is requested, the subscriber's authorization is checked by evaluating a mobile subscriber telephone number MSISDN for the subscriber.
- 8. The method as claimed in one of claims 1 to 7, characterized
- in that the security device (9) sends the key which is transmitted to the subscriber to one or more added value service nodes (11).